FIG. 1

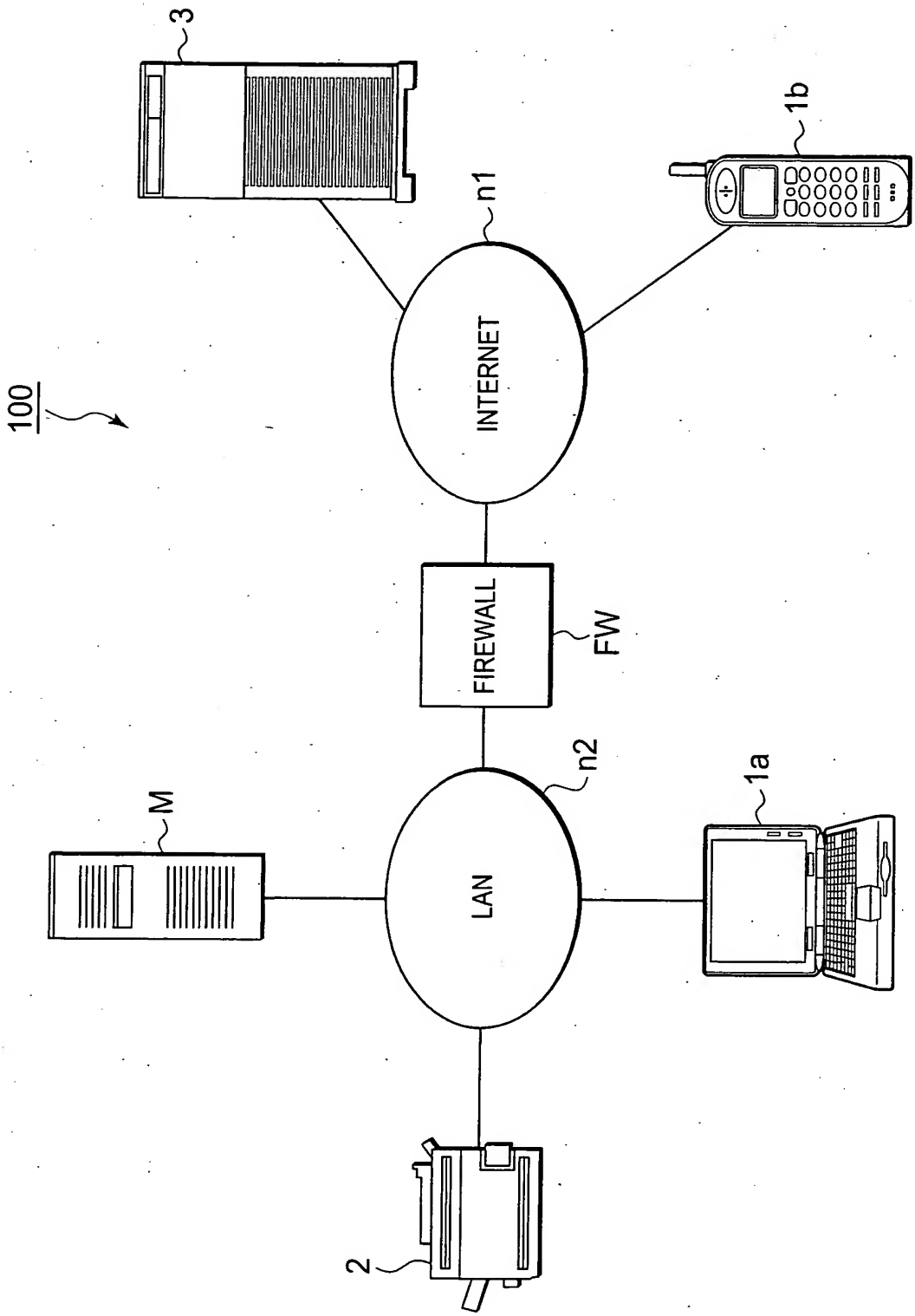

FIG. 2

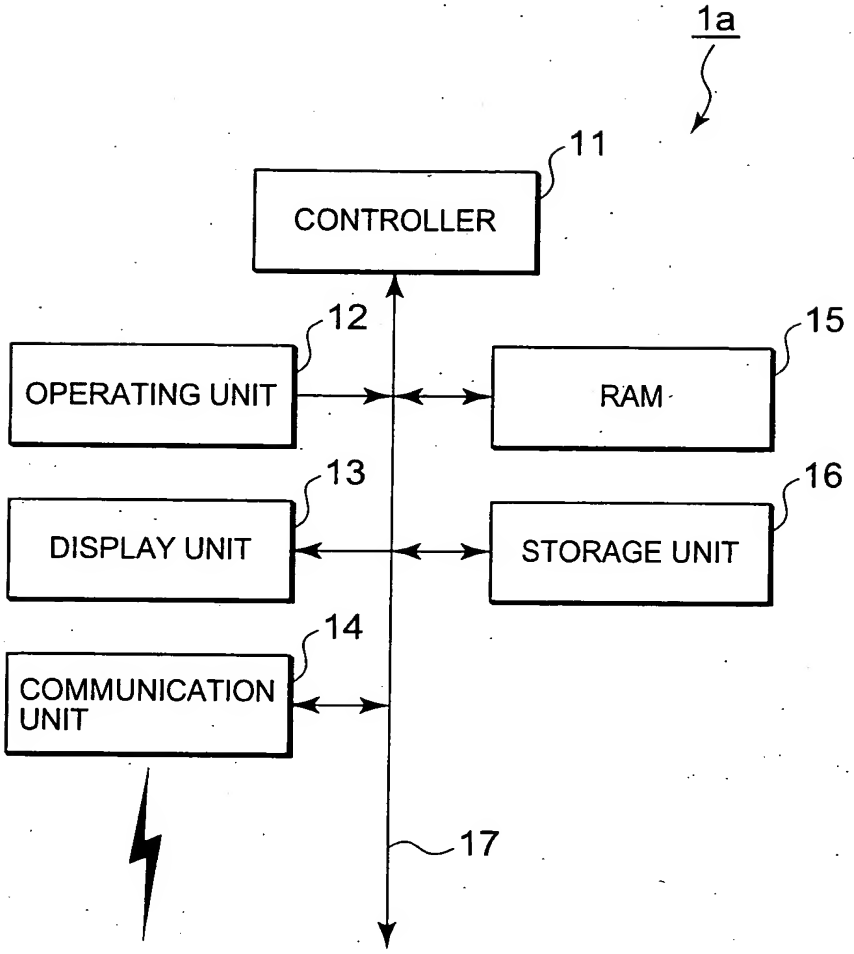
1a
11
CONTROLLER
12
OPERATING UNIT
15
RAM
13
DISPLAY UNIT
16
STORAGE UNIT
14
COMMUNICATION UNIT
17

FIG. 3

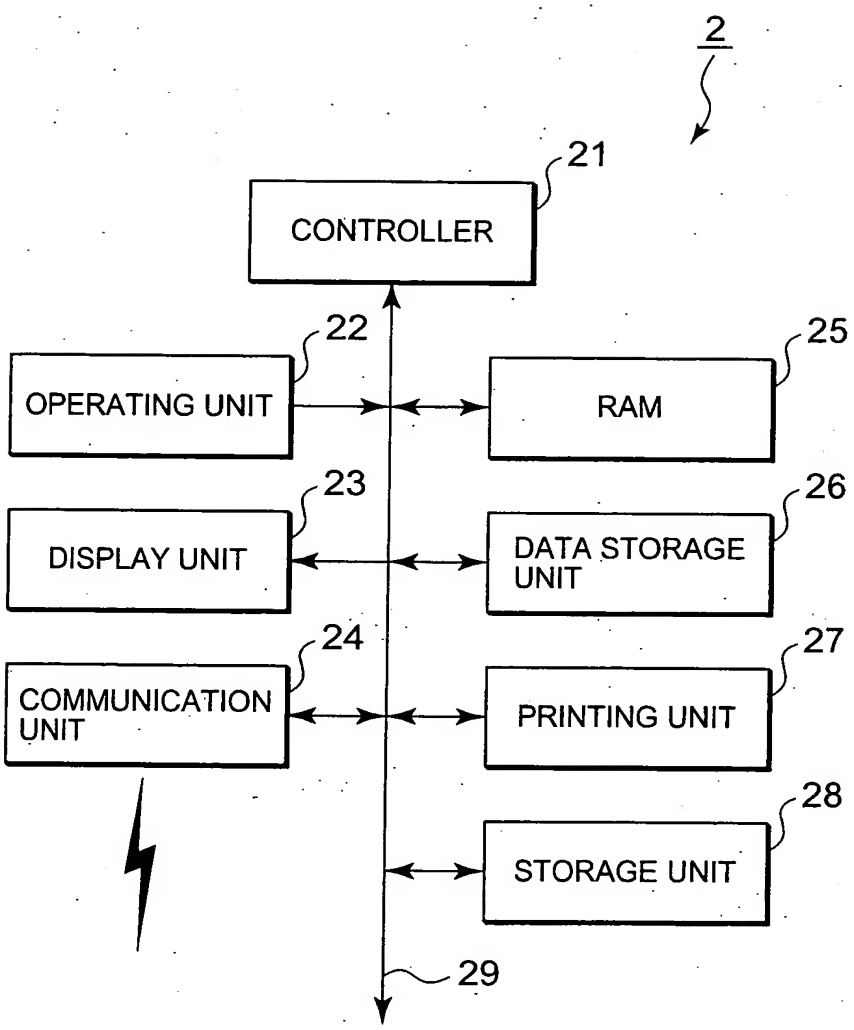
2
21
CONTROLLER
22
OPERATING UNIT
25
RAM
23
DISPLAY UNIT
26
DATA STORAGE UNIT
24
COMMUNICATION UNIT
27
PRINTING UNIT
28
STORAGE UNIT
29

FIG. 4

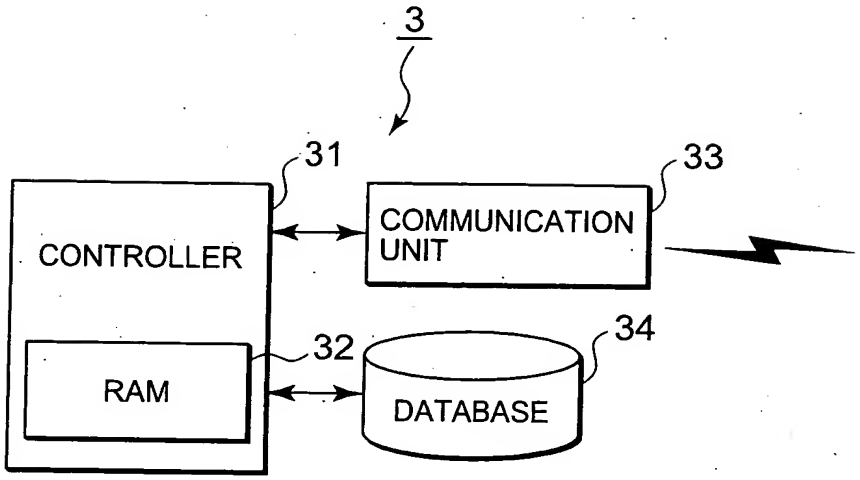
3
31
33
CONTROLLER
COMMUNICATION UNIT
32
34
RAM
DATABASE

FIG. 5

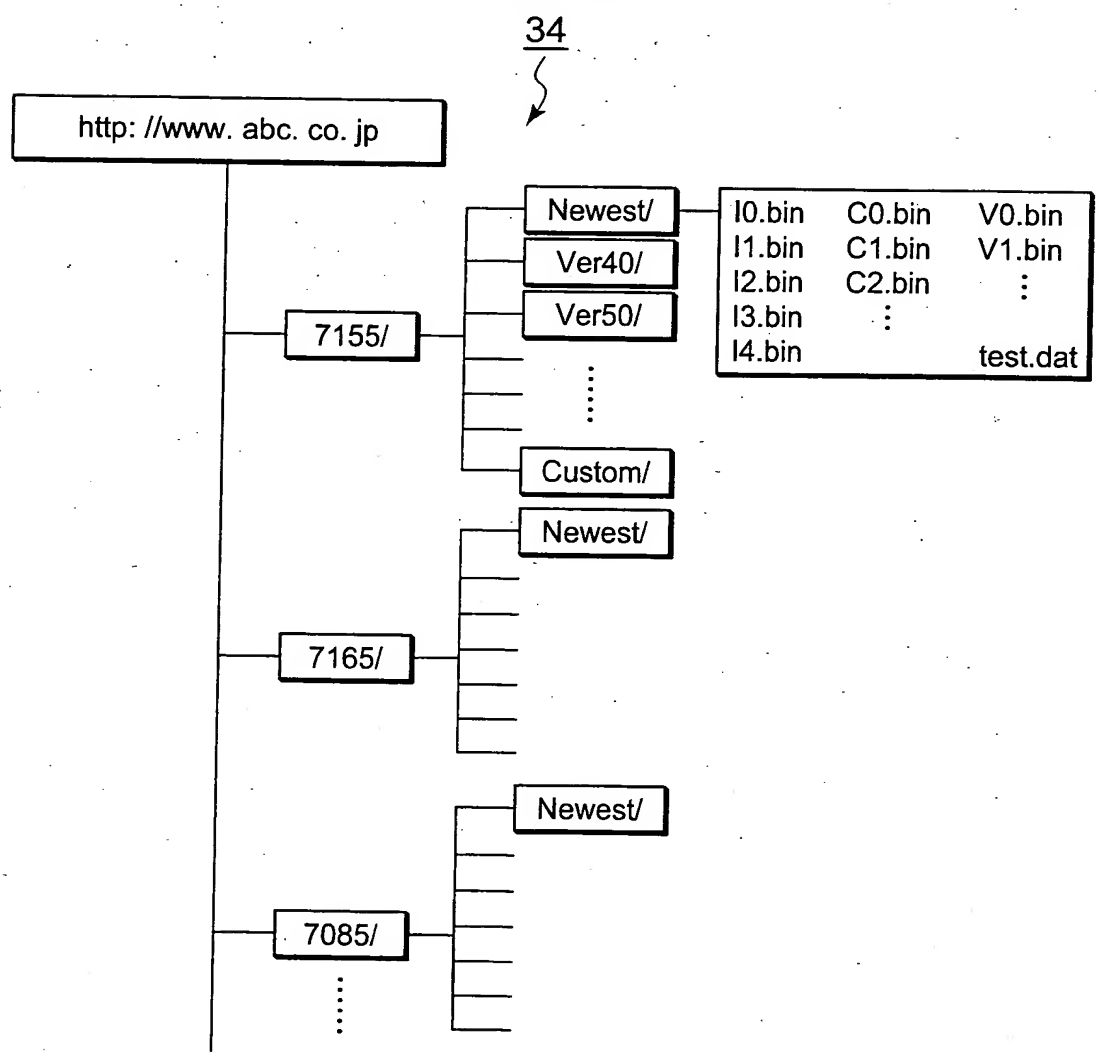
34
http: //www. abc. co. jp
7155/
Newest/
Ver40/
Ver50/
Custom/
7165/
Newest/
7085/
Newest/
I0.bin
I1.bin
I2.bin
I3.bin
I4.bin
C0.bin
C1.bin
C2.bin
V0.bin
V1.bin
test.dat

FIG. 6

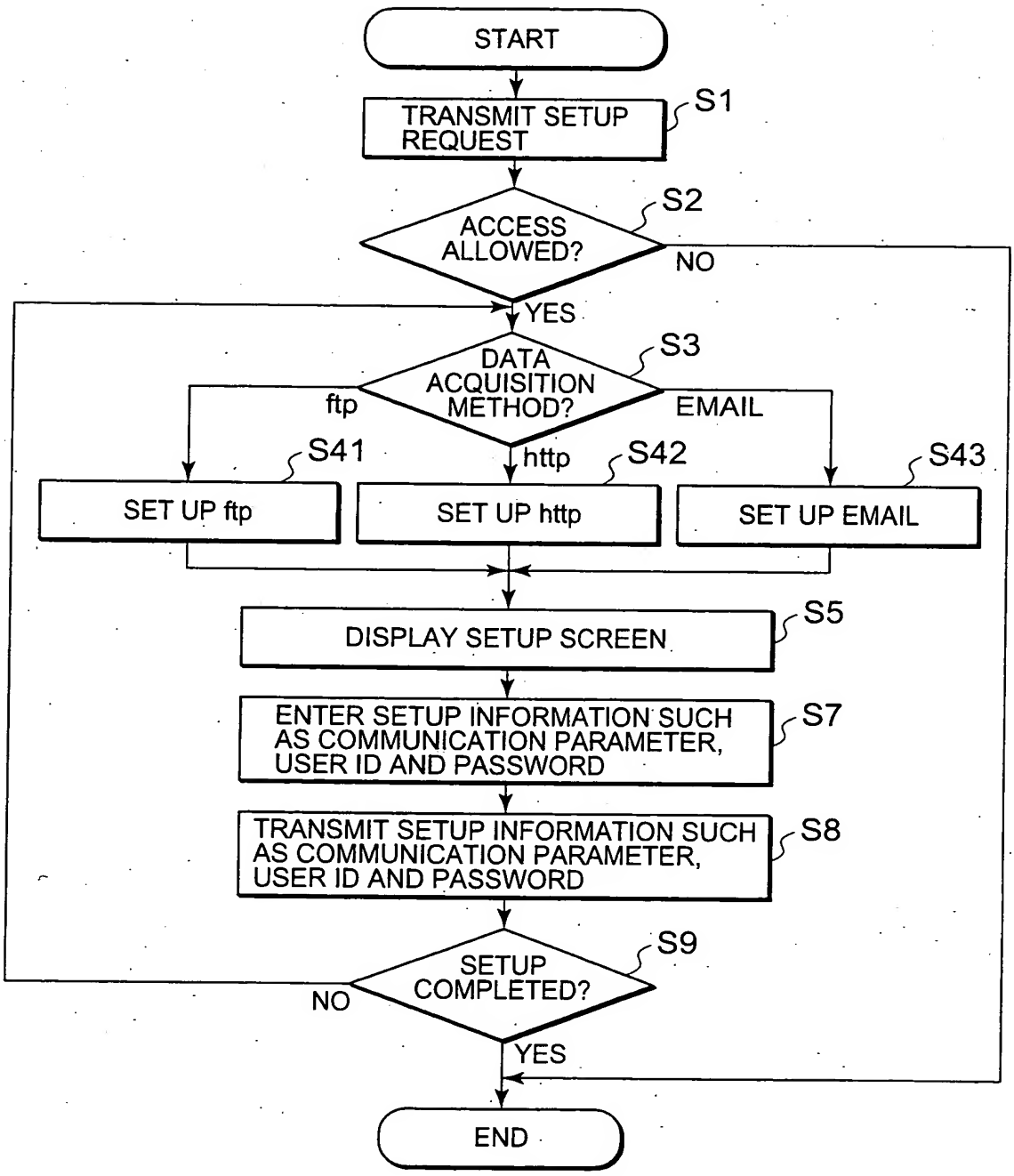
START
TRANSMIT SETUP REQUEST
S1
ACCESS ALLOWED?
S2
NO
YES
DATA ACQUISITION METHOD?
S3
ftp
EMAIL
http
S41
S42
S43
SET UP ftp
SET UP http
SET UP EMAIL
DISPLAY SETUP SCREEN
S5
ENTER SETUP INFORMATION SUCH AS COMMUNICATION PARAMETER, USER ID AND PASSWORD
S7
TRANSMIT SETUP INFORMATION SUCH AS COMMUNICATION PARAMETER, USER ID AND PASSWORD
S8
SETUP COMPLETED?
S9
NO
YES
END

FIG. 7A

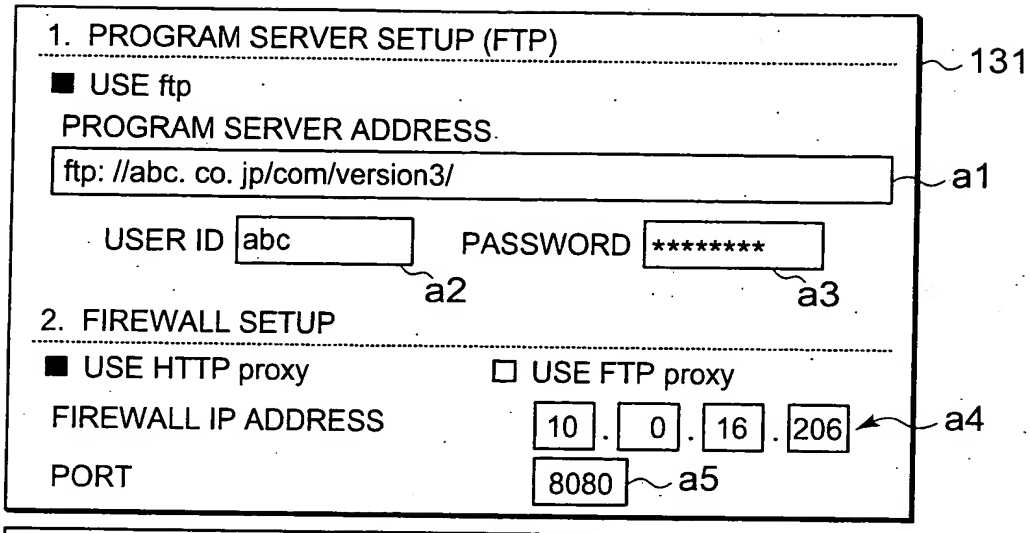

FIG. 7B

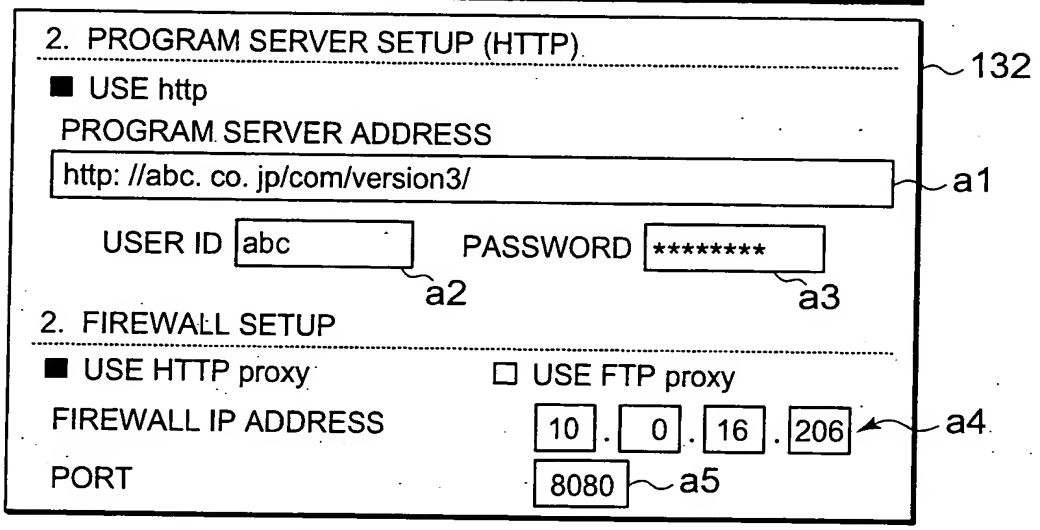

FIG. 7C

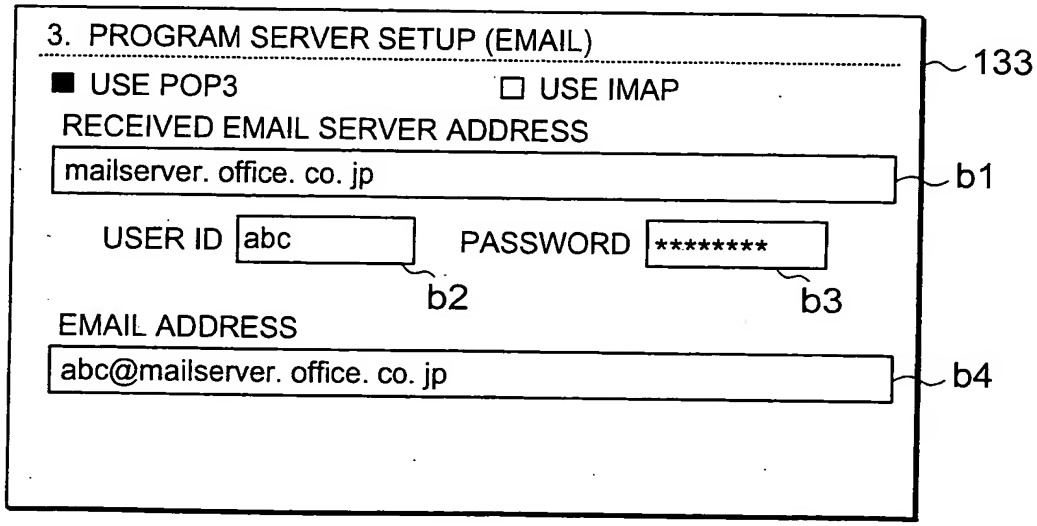

FIG. 8

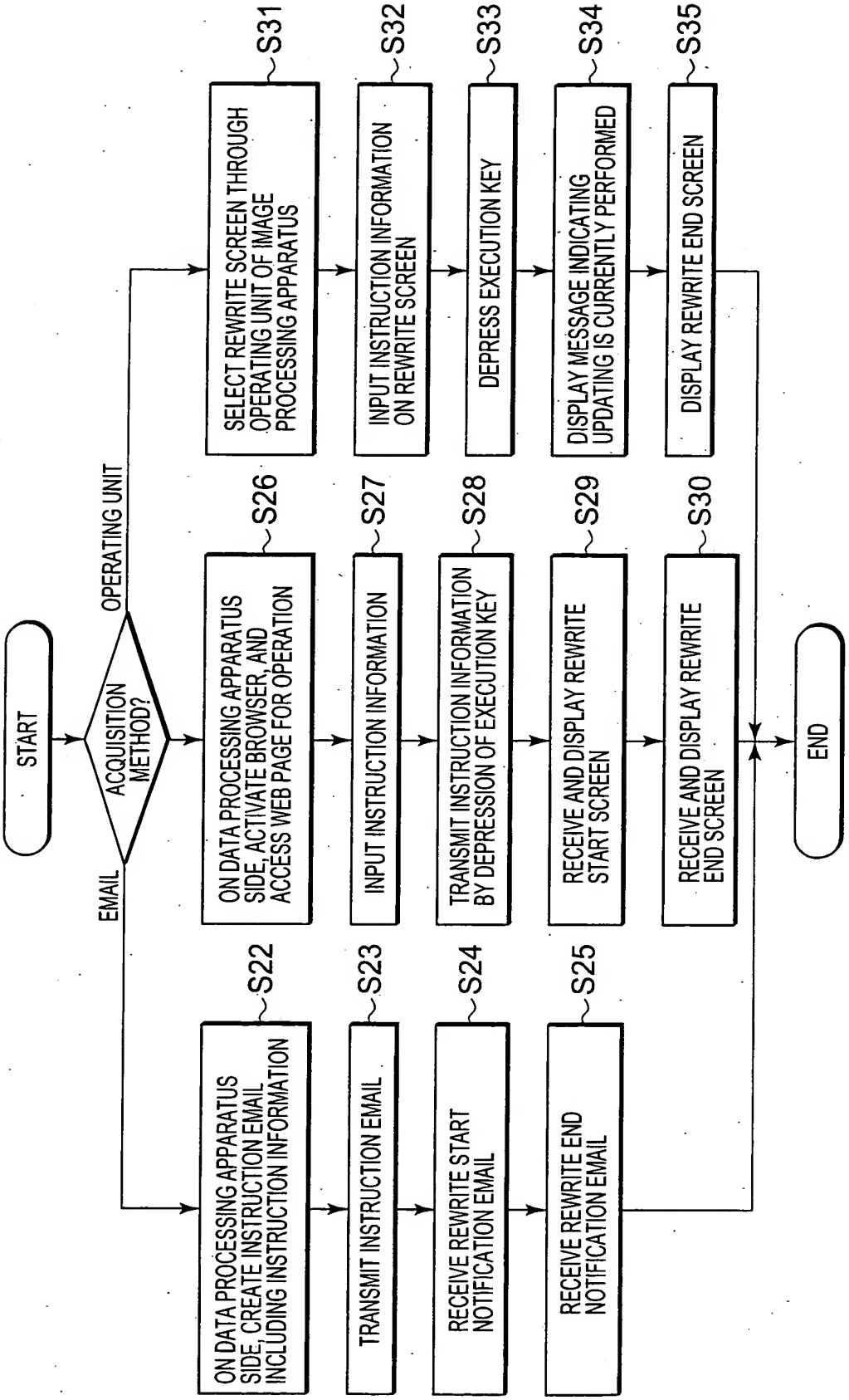
START
ACQUISITION METHOD?
OPERATING UNIT
EMAIL
SELECT REWRITE SCREEN THROUGH OPERATING UNIT OF IMAGE PROCESSING APPARATUS
S31
INPUT INSTRUCTION INFORMATION ON REWRITE SCREEN
S32
DEPRESS EXECUTION KEY
S33
DISPLAY MESSAGE INDICATING UPDATING IS CURRENTLY PERFORMED
S34
DISPLAY REWRITE END SCREEN
S35
ON DATA PROCESSING APPARATUS SIDE, ACTIVATE BROWSER, AND ACCESS WEB PAGE FOR OPERATION
S26
INPUT INSTRUCTION INFORMATION
S27
TRANSMIT INSTRUCTION INFORMATION BY DEPRESSION OF EXECUTION KEY
S28
RECEIVE AND DISPLAY REWRITE START SCREEN
S29
RECEIVE AND DISPLAY REWRITE END SCREEN
S30
ON DATA PROCESSING APPARATUS SIDE, CREATE INSTRUCTION EMAIL INCLUDING INSTRUCTION INFORMATION
S22
TRANSMIT INSTRUCTION EMAIL
S23
RECEIVE REWRITE START NOTIFICATION EMAIL
S24
RECEIVE REWRITE END NOTIFICATION EMAIL
S25
END

FIG. 9A

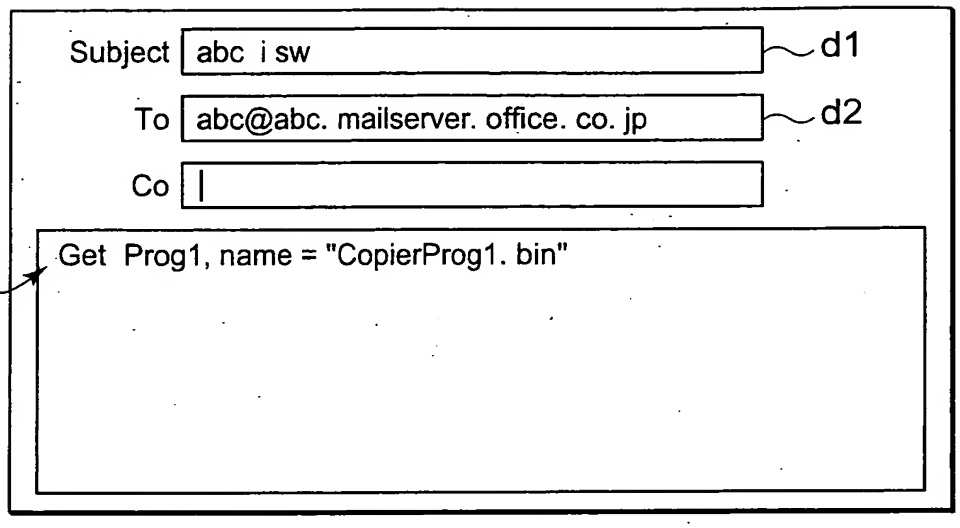

FIG. 9B

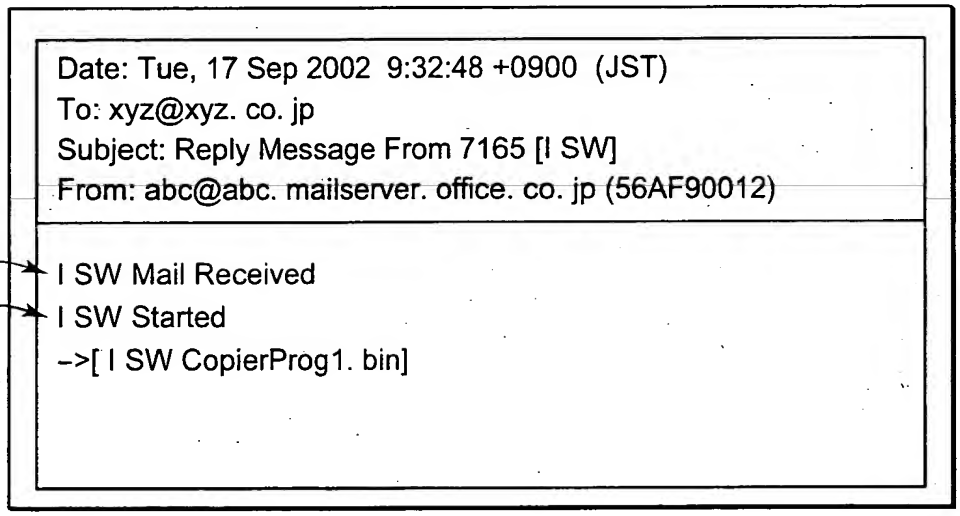

FIG. 9C

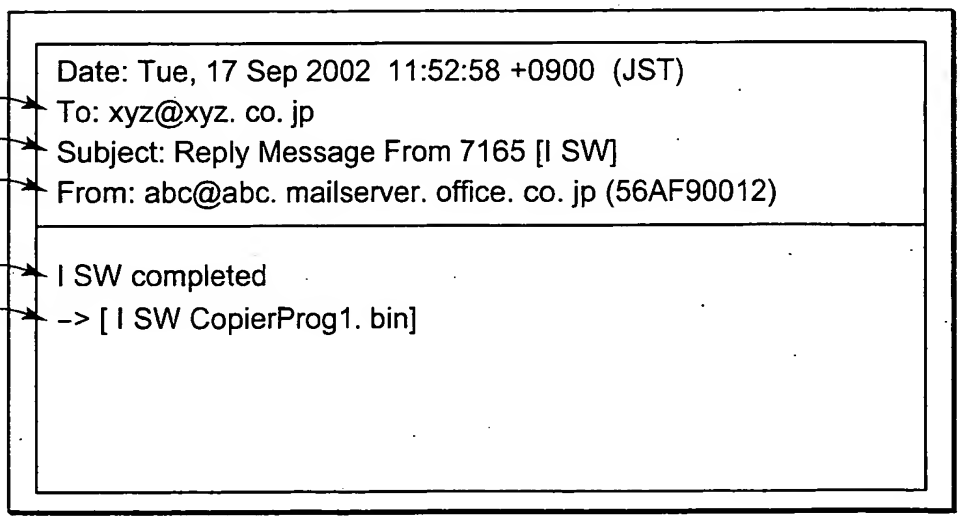

FIG. 10A

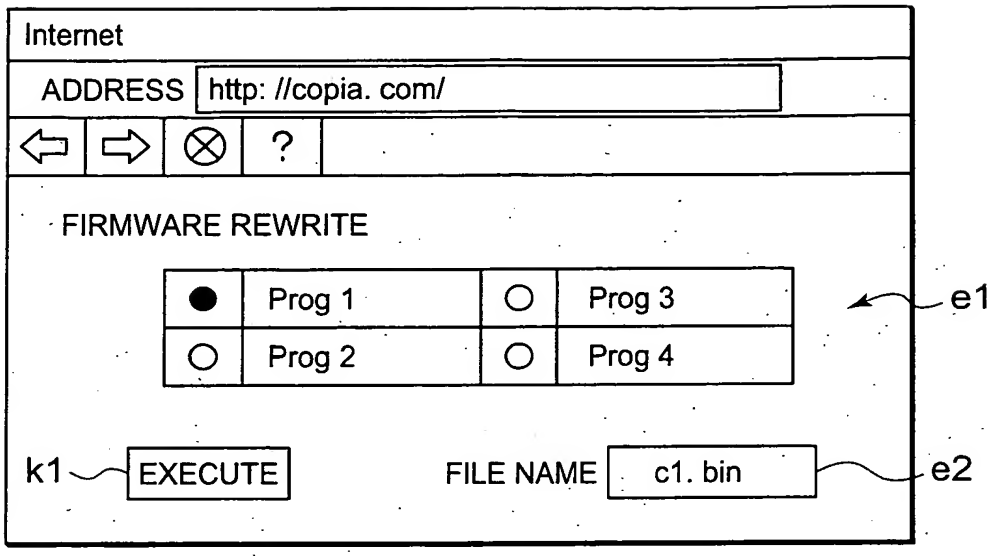

FIG. 10B

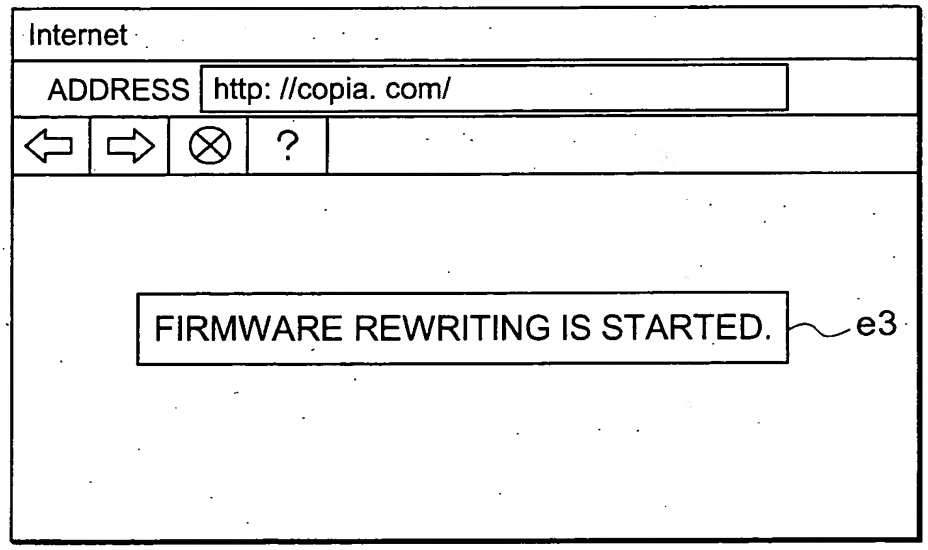

FIG. 10C

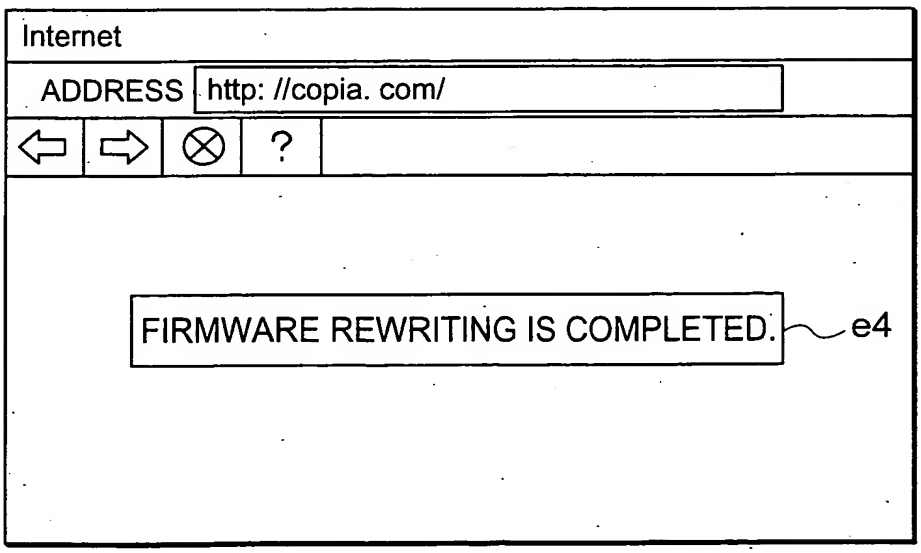

FIG. 11A

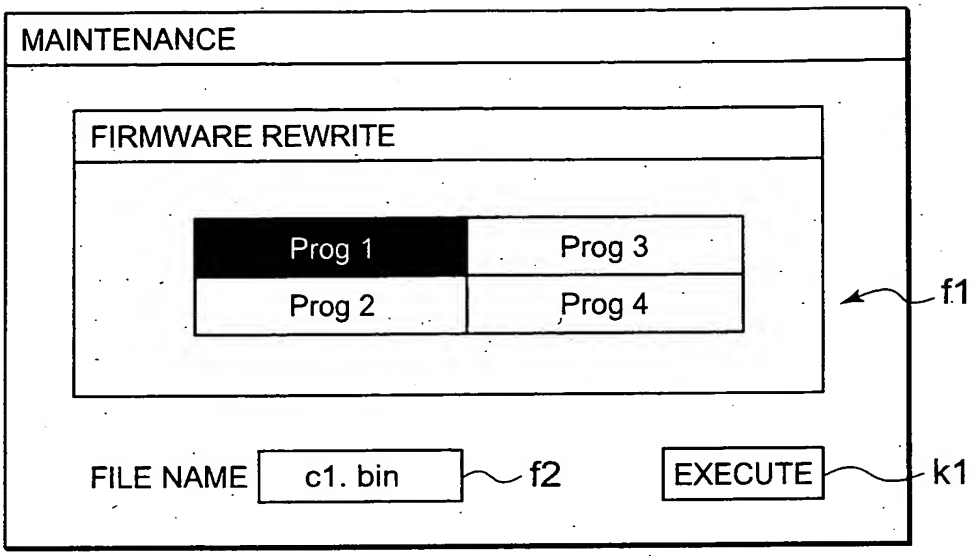

FIG. 11B

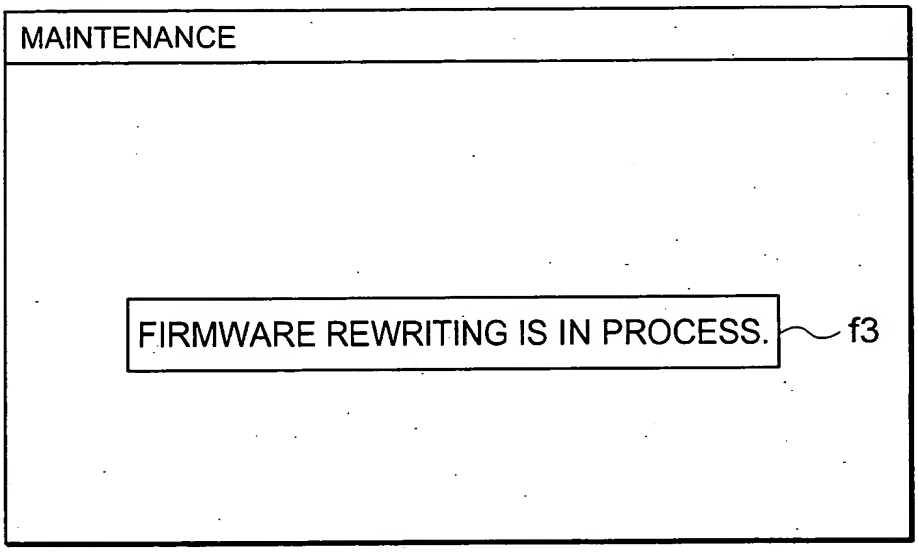

FIG. 11C

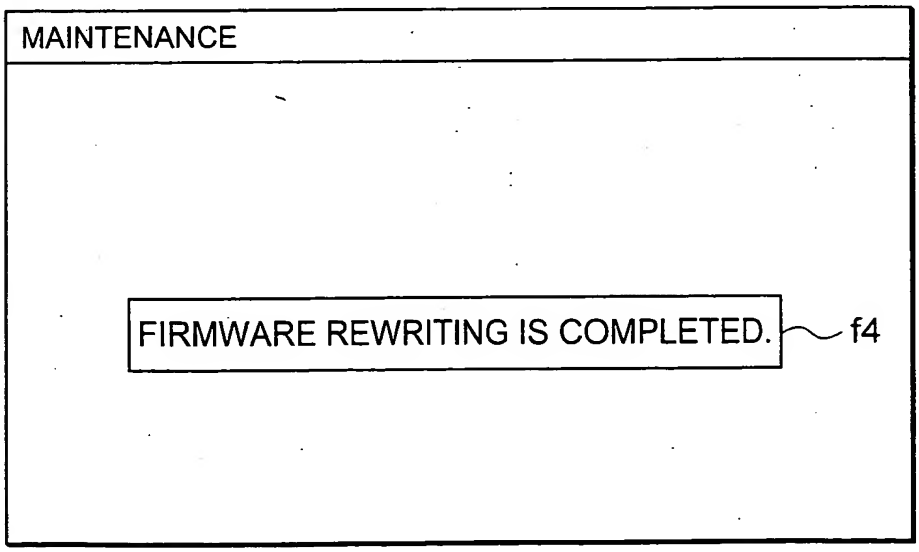

FIG. 12

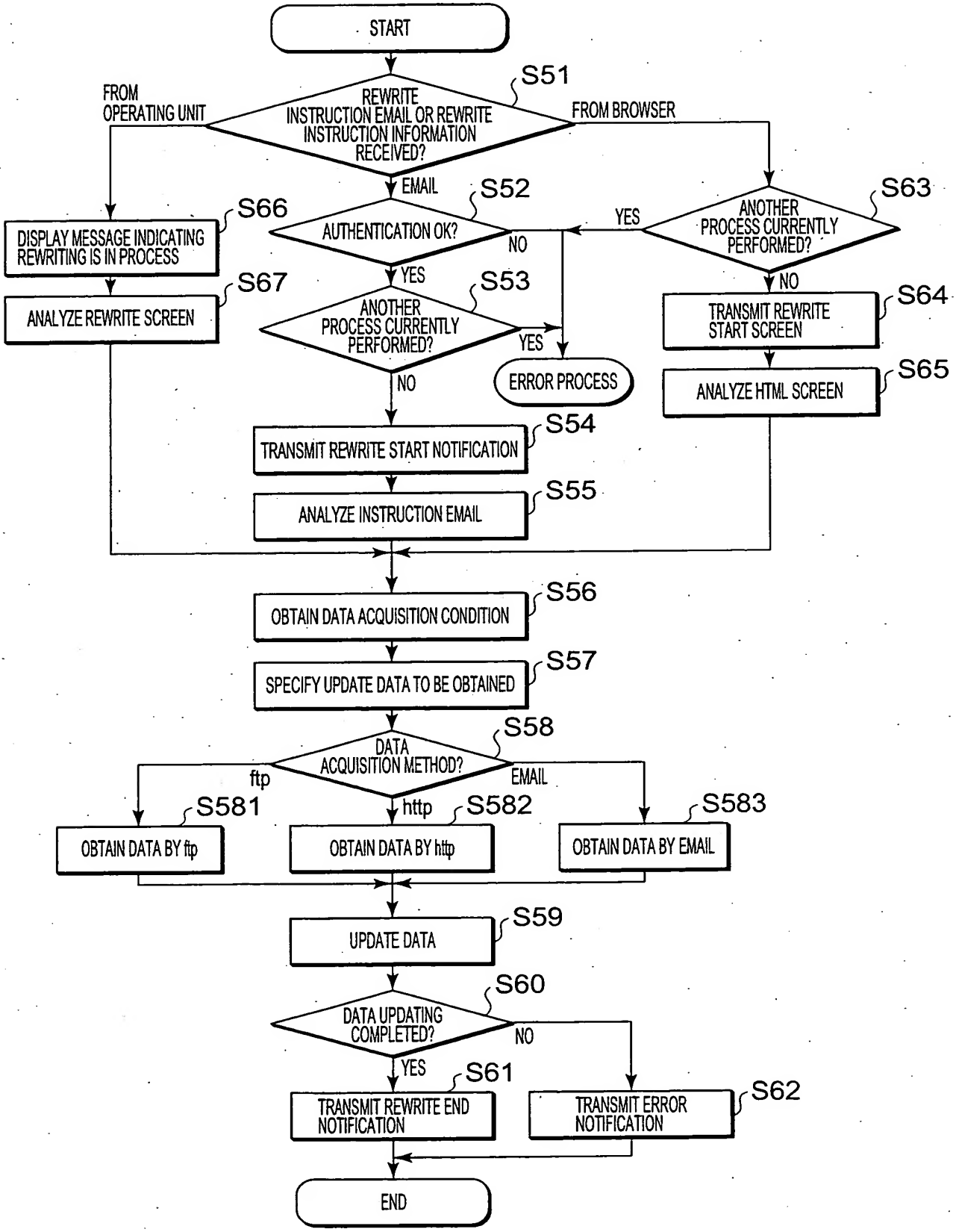
START
S51
REWRITE INSTRUCTION EMAIL OR REWRITE INSTRUCTION INFORMATION RECEIVED?
FROM OPERATING UNIT
FROM BROWSER
EMAIL
S52
AUTHENTICATION OK?
NO
YES
S63
ANOTHER PROCESS CURRENTLY PERFORMED?
YES
NO
S66
DISPLAY MESSAGE INDICATING REWRITING IS IN PROCESS
S67
ANALYZE REWRITE SCREEN
S53
ANOTHER PROCESS CURRENTLY PERFORMED?
YES
NO
ERROR PROCESS
S64
TRANSMIT REWRITE START SCREEN
S65
ANALYZE HTML SCREEN
S54
TRANSMIT REWRITE START NOTIFICATION
S55
ANALYZE INSTRUCTION EMAIL
S56
OBTAIN DATA ACQUISITION CONDITION
S57
SPECIFY UPDATE DATA TO BE OBTAINED
S58
DATA ACQUISITION METHOD?
ftp
http
EMAIL
S581
OBTAIN DATA BY ftp
S582
OBTAIN DATA BY http
S583
OBTAIN DATA BY EMAIL
S59
UPDATE DATA
S60
DATA UPDATING COMPLETED?
NO
YES
S61
TRANSMIT REWRITE END NOTIFICATION
S62
TRANSMIT ERROR NOTIFICATION
END

FIG. 13

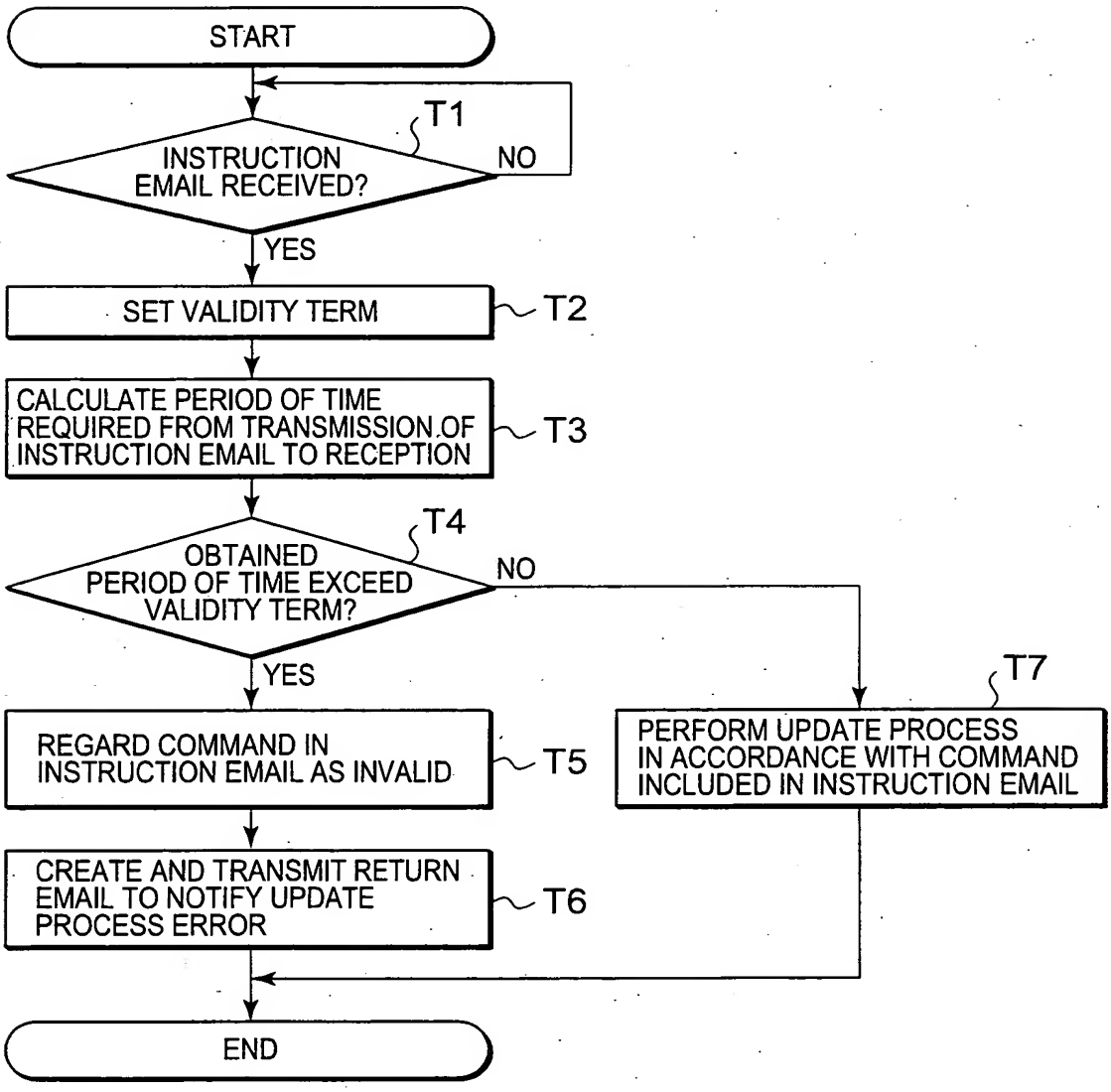
START
T1
INSTRUCTION EMAIL RECEIVED?
NO
YES
SET VALIDITY TERM
T2
CALCULATE PERIOD OF TIME REQUIRED FROM TRANSMISSION OF INSTRUCTION EMAIL TO RECEPTION
T3
T4
OBTAINED PERIOD OF TIME EXCEED VALIDITY TERM?
NO
YES
T7
REGARD COMMAND IN INSTRUCTION EMAIL AS INVALID
T5
PERFORM UPDATE PROCESS IN ACCORDANCE WITH COMMAND INCLUDED IN INSTRUCTION EMAIL
CREATE AND TRANSMIT RETURN EMAIL TO NOTIFY UPDATE PROCESS ERROR
T6
END

FIG. 14

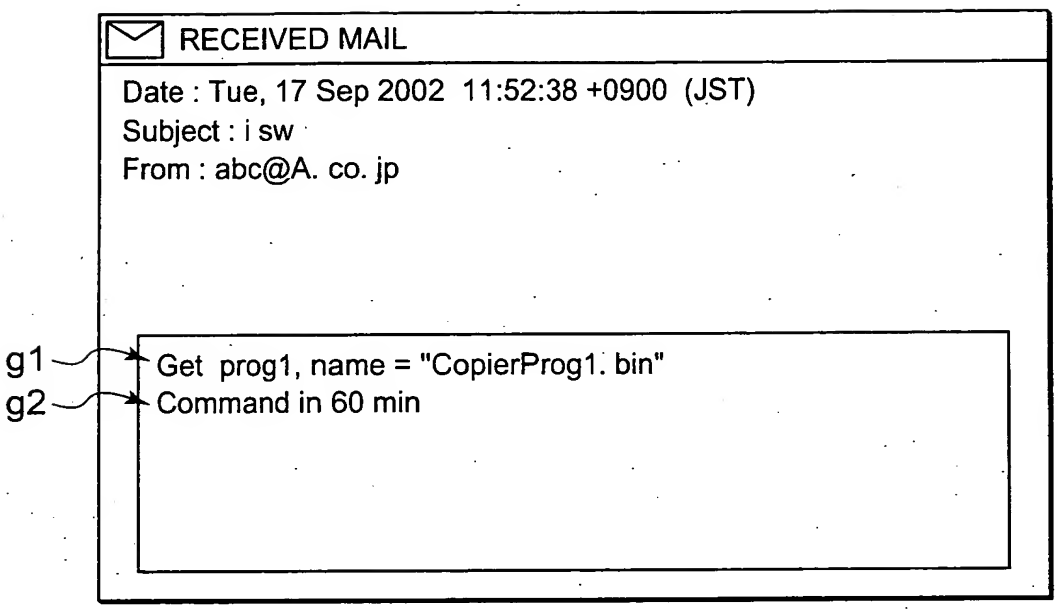
RECEIVED MAIL
Date : Tue, 17 Sep 2002 11:52:38 +0900 (JST)
Subject : i sw
From : abc@A. co. jp
g1
g2
Get prog1, name = "CopierProg1. bin"
Command in 60 min

FIG. 15

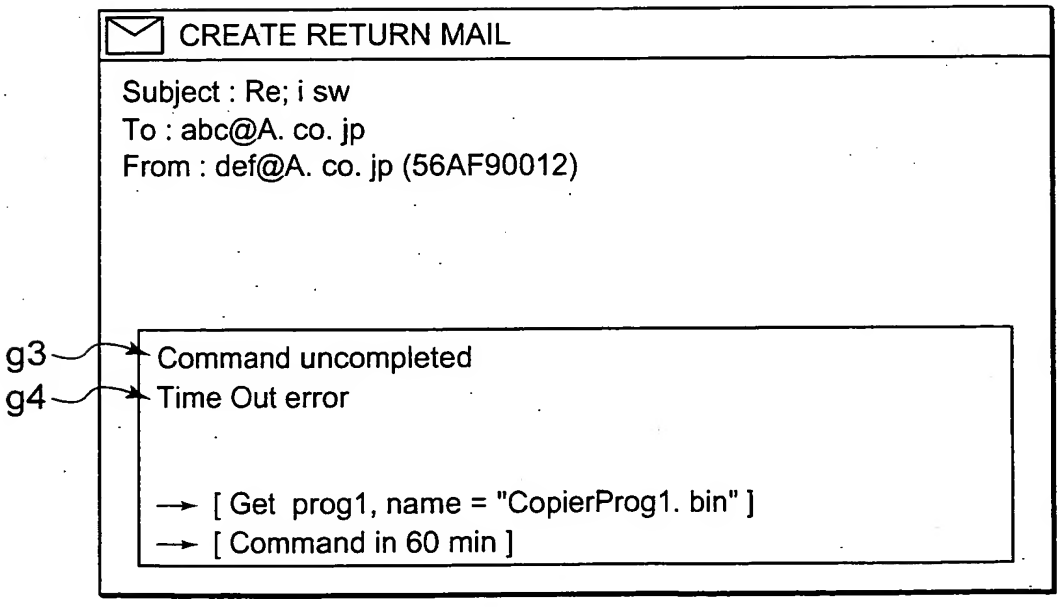
CREATE RETURN MAIL
Subject : Re; i sw
To : abc@A. co. jp
From : def@A. co. jp (56AF90012)
g3
g4
Command uncompleted
Time Out error
→ [Get prog1, name = "CopierProg1. bin"]
→ [Command in 60 min]

FIG. 16A

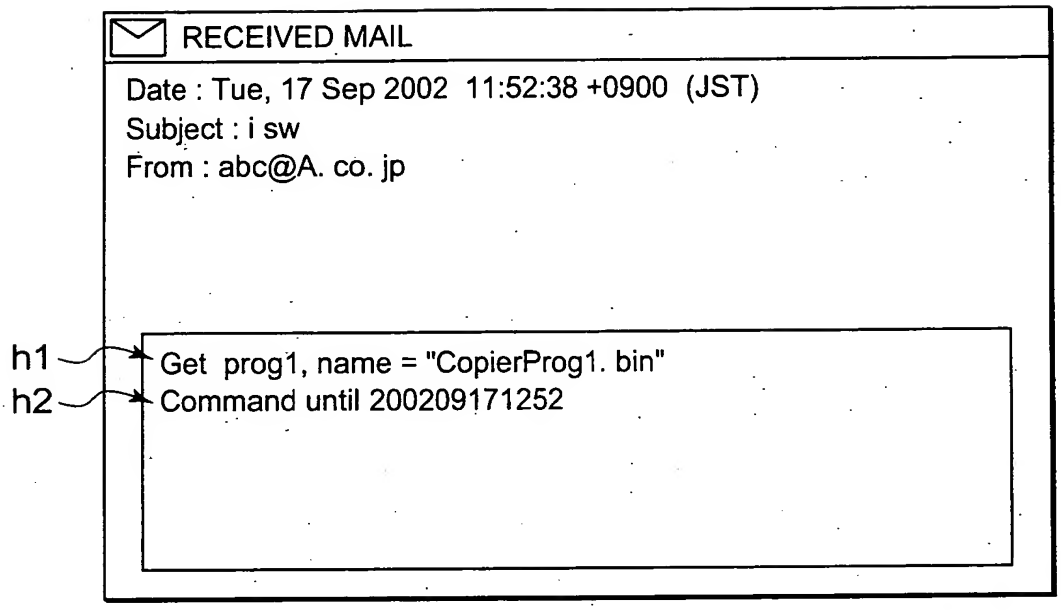

FIG. 16B

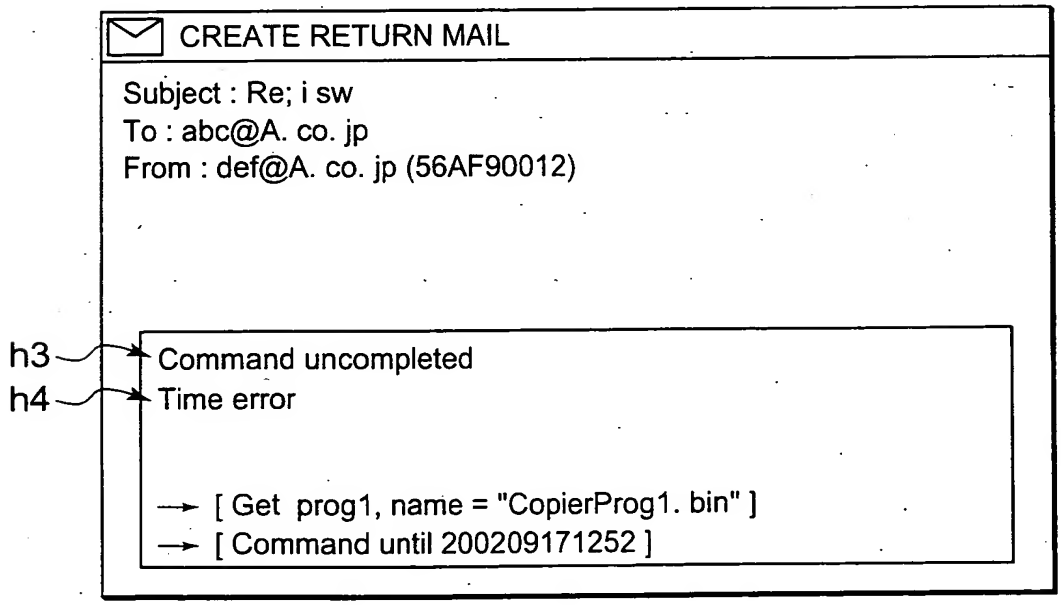

FIG. 17A

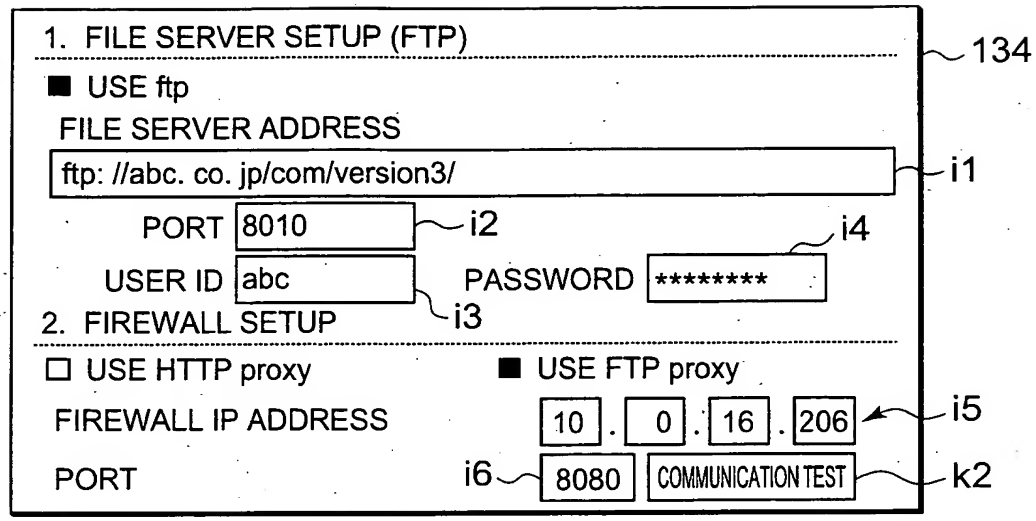

FIG. 17B

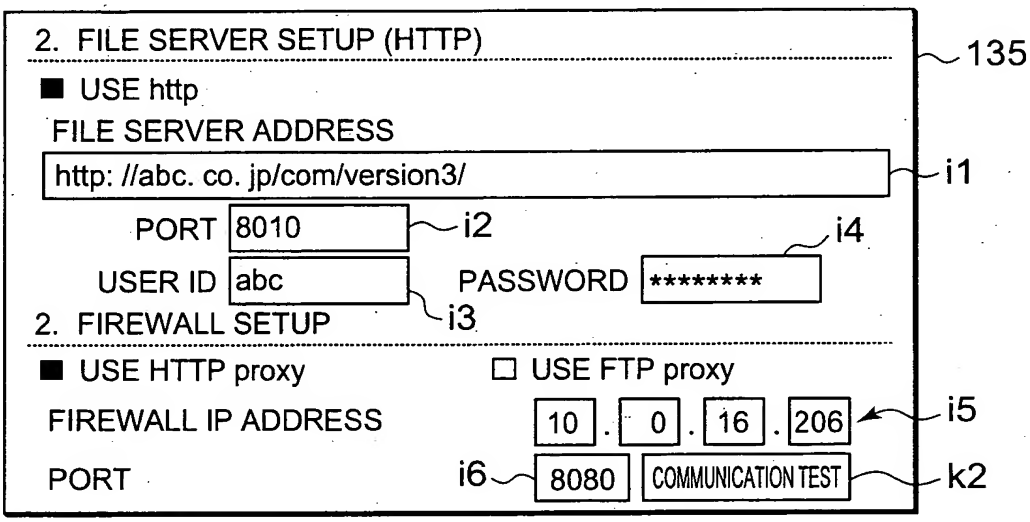

FIG. 17C

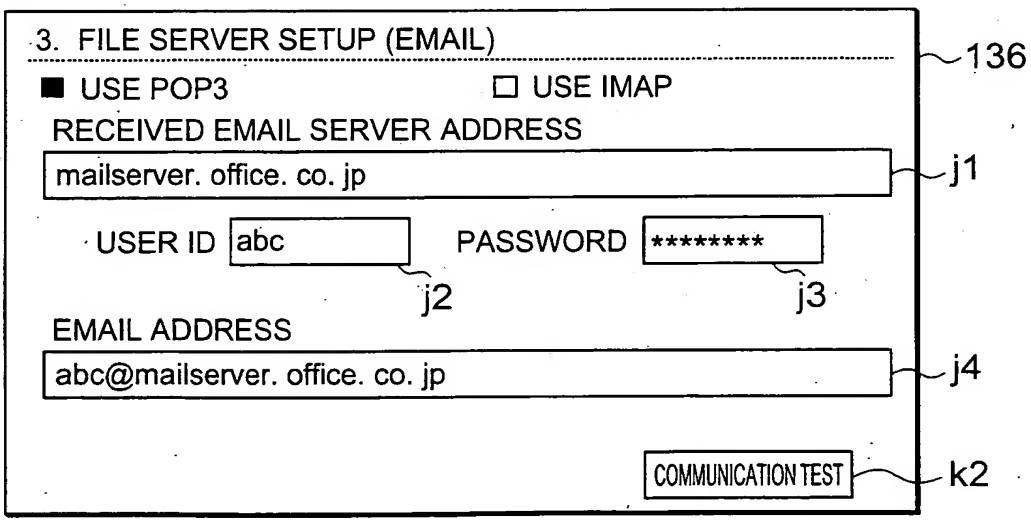

FIG. 18

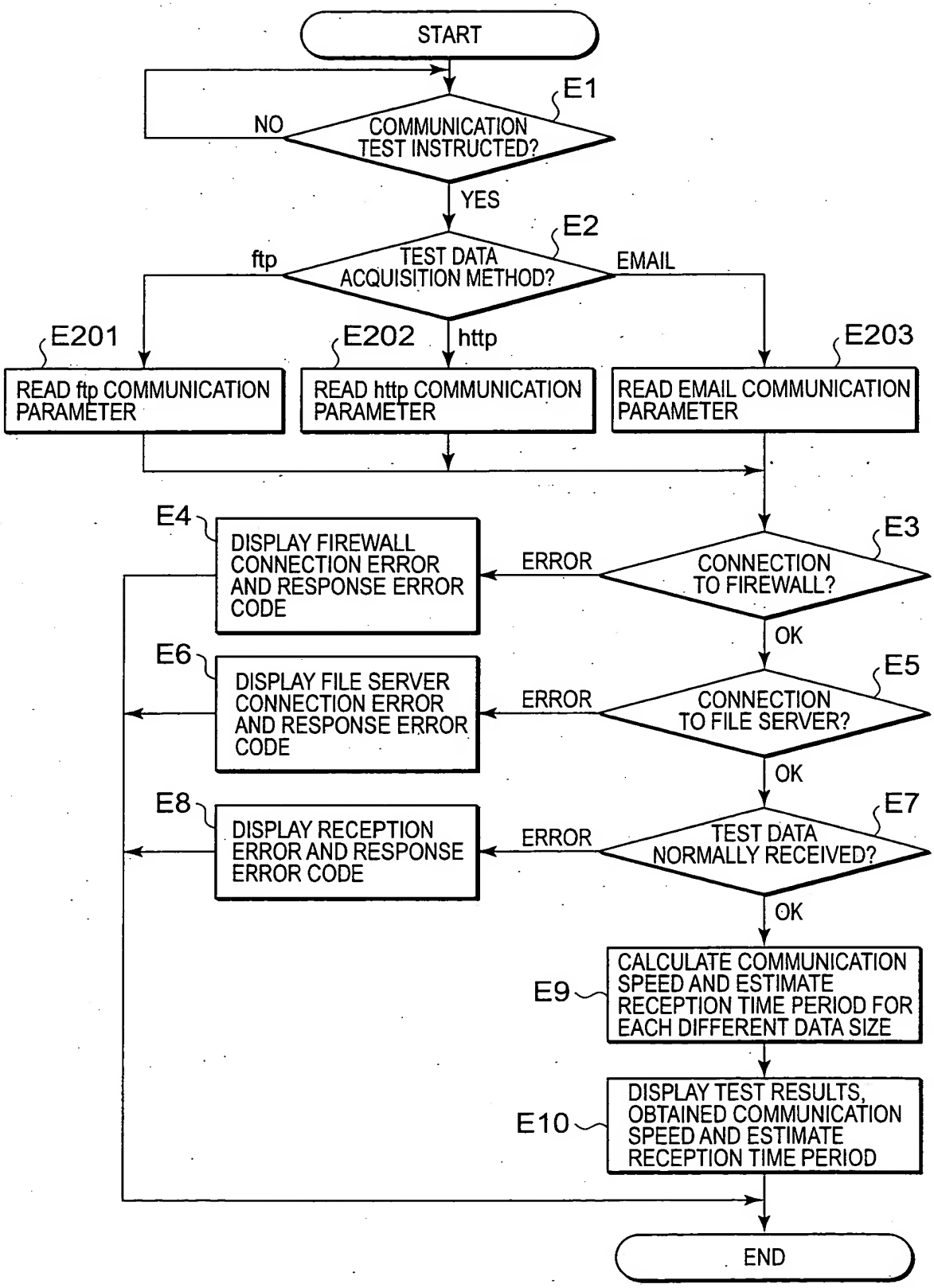
START
E1
NO
COMMUNICATION TEST INSTRUCTED?
YES
E2
ftp
TEST DATA ACQUISITION METHOD?
EMAIL
E201
E202
http
E203
READ ftp COMMUNICATION PARAMETER
READ http COMMUNICATION PARAMETER
READ EMAIL COMMUNICATION PARAMETER
E4
DISPLAY FIREWALL CONNECTION ERROR AND RESPONSE ERROR CODE
ERROR
E3
CONNECTION TO FIREWALL?
OK
E6
DISPLAY FILE SERVER CONNECTION ERROR AND RESPONSE ERROR CODE
ERROR
E5
CONNECTION TO FILE SERVER?
OK
E8
DISPLAY RECEPTION ERROR AND RESPONSE ERROR CODE
ERROR
E7
TEST DATA NORMALLY RECEIVED?
OK
E9
CALCULATE COMMUNICATION SPEED AND ESTIMATE RECEPTION TIME PERIOD FOR EACH DIFFERENT DATA SIZE
E10
DISPLAY TEST RESULTS, OBTAINED COMMUNICATION SPEED AND ESTIMATE RECEPTION TIME PERIOD
END

FIG. 19A

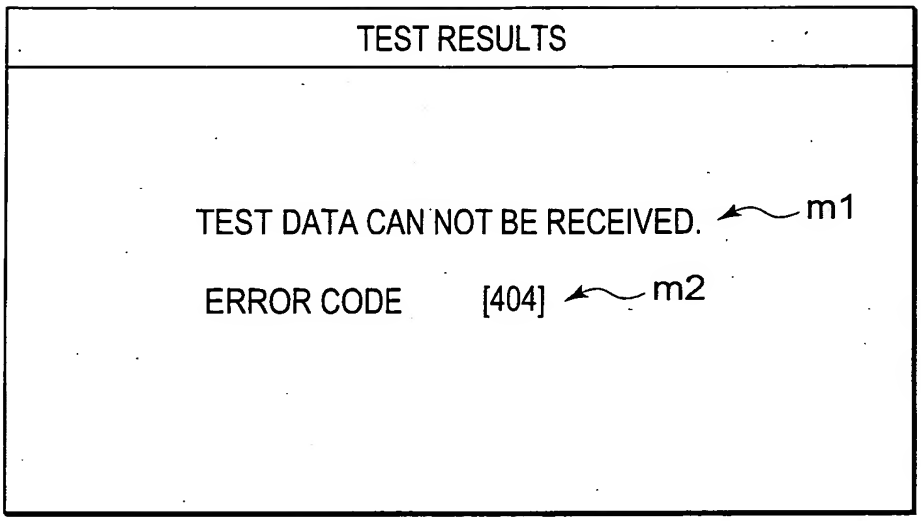
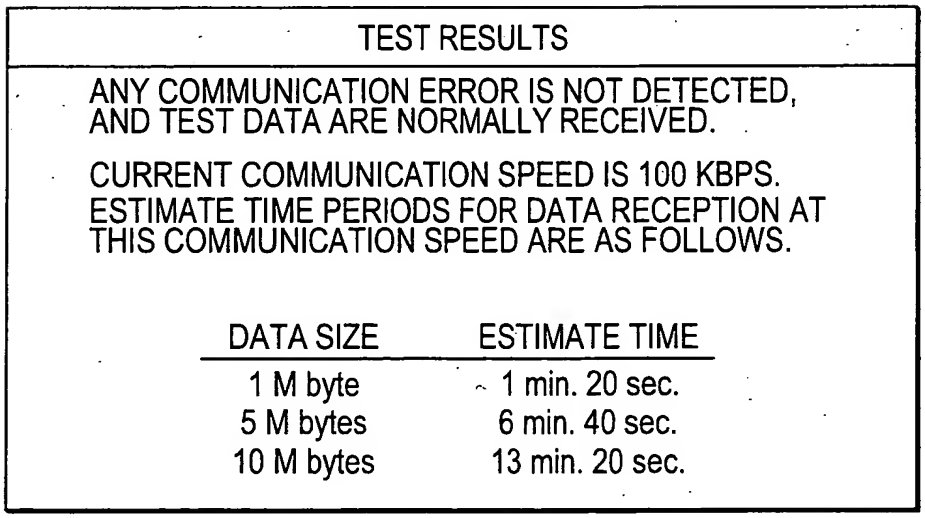
FIG. 19B